

# **The Picture of Mobility: Virginia and the Nation**

## **53<sup>rd</sup> Virginia Transportation Conference**

Tim Lomax

Texas Transportation Institute



# The Headlines

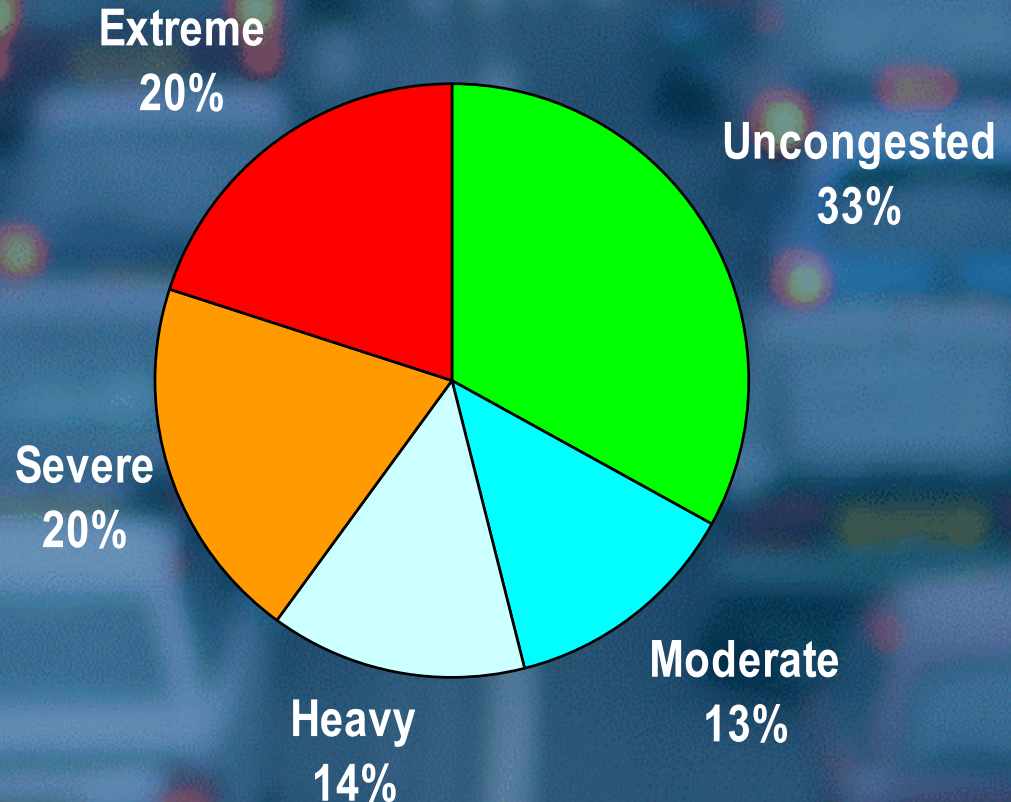
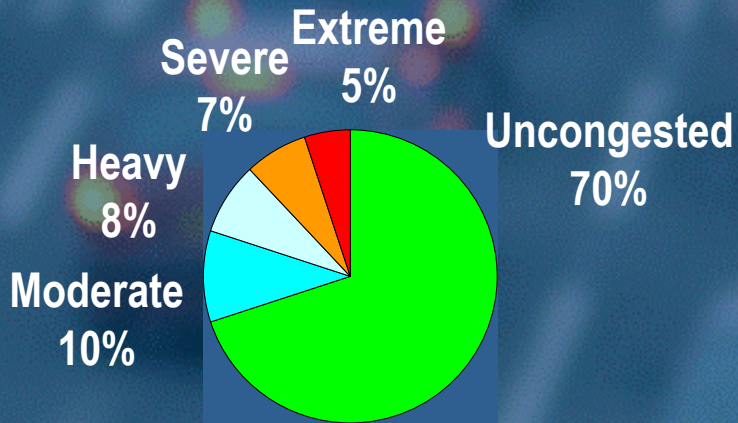
- Congestion is growing...
- even in Virginia!
- There are Solutions
- We need to do more



# Congestion is Growing

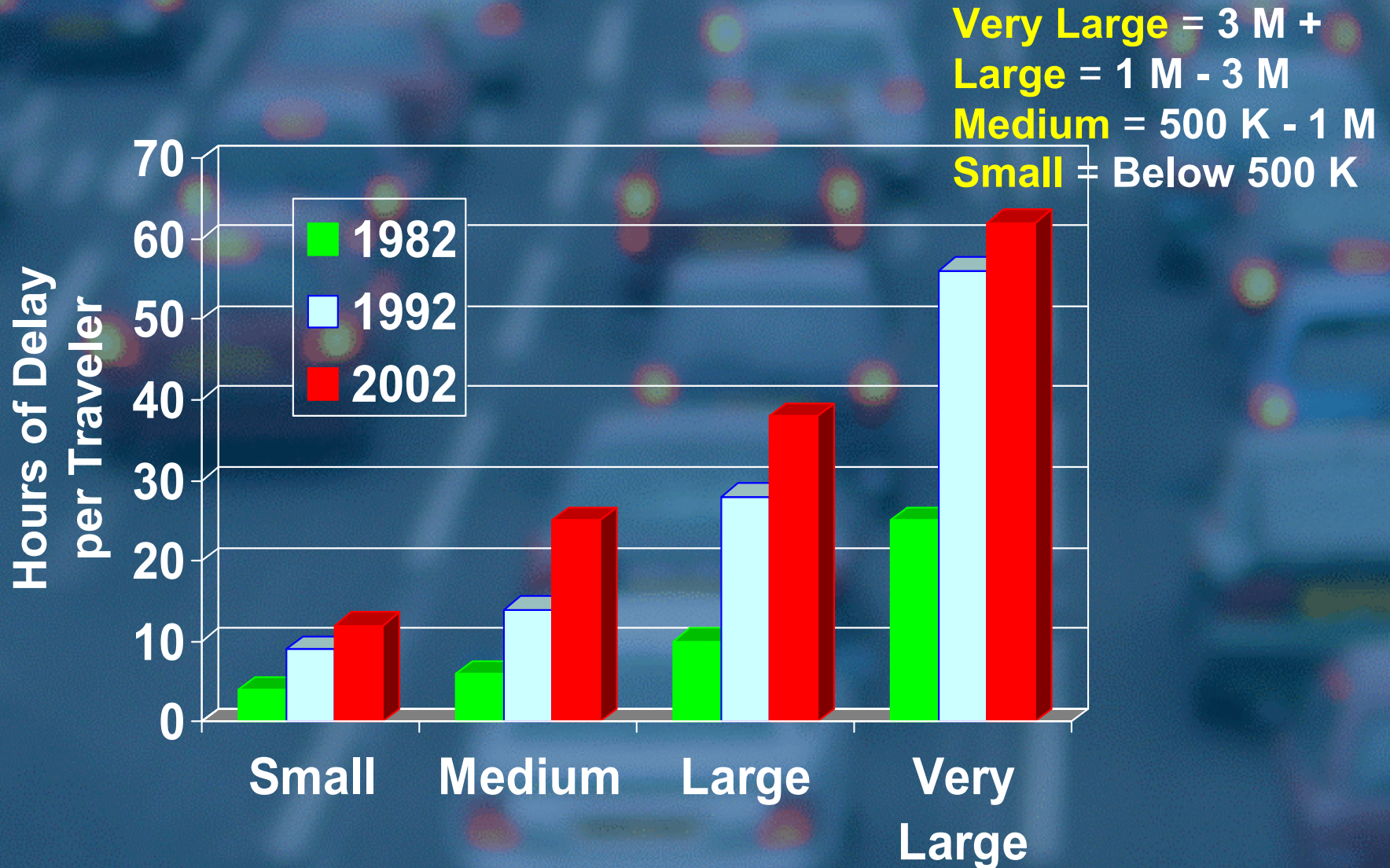
1982 0.7 Billion Hours

2002 3.5 Billion Hours



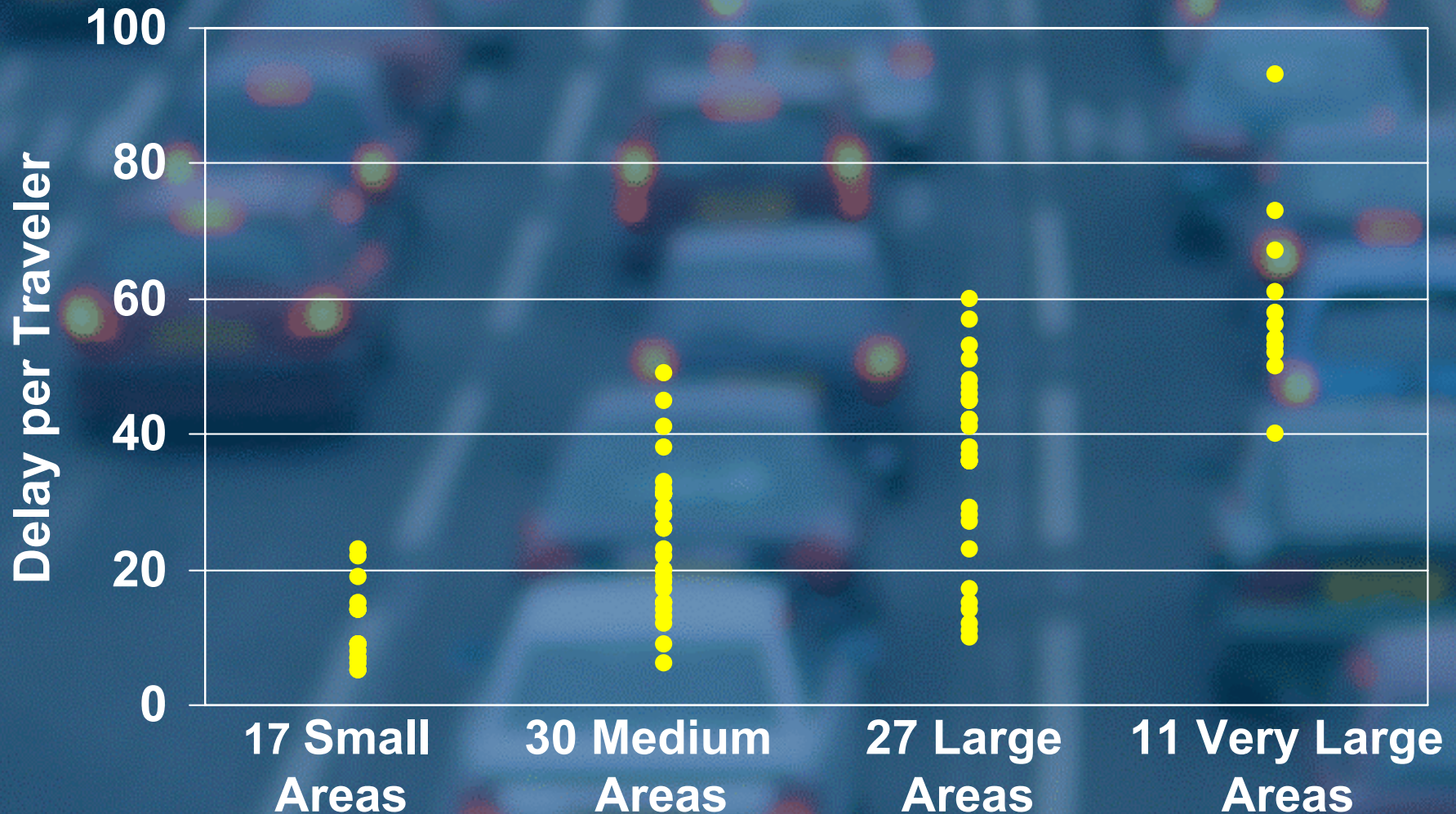


# More Time on the Roads





# Congestion: Worse in Bigger Places





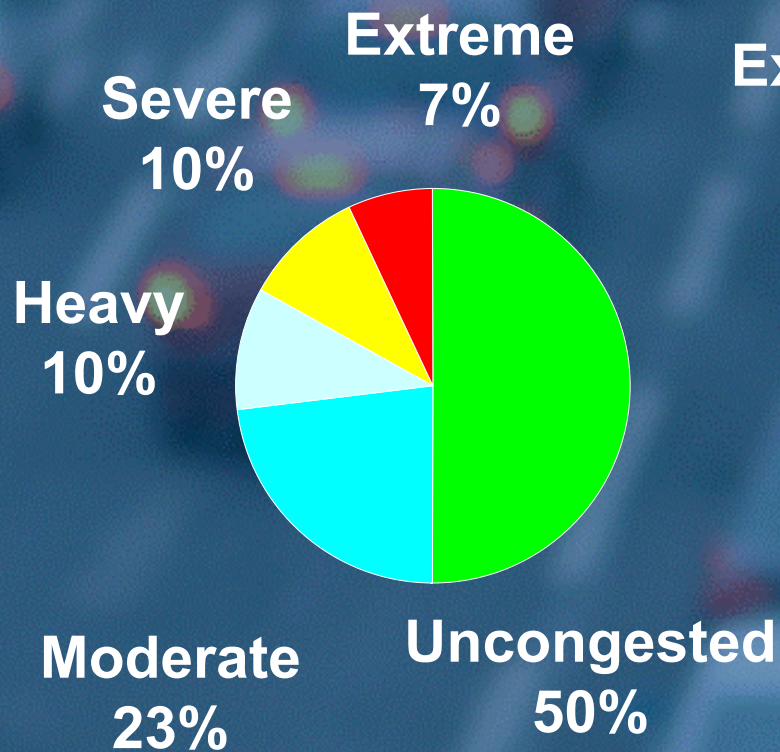


# **Congestion In Virginia's Cities**

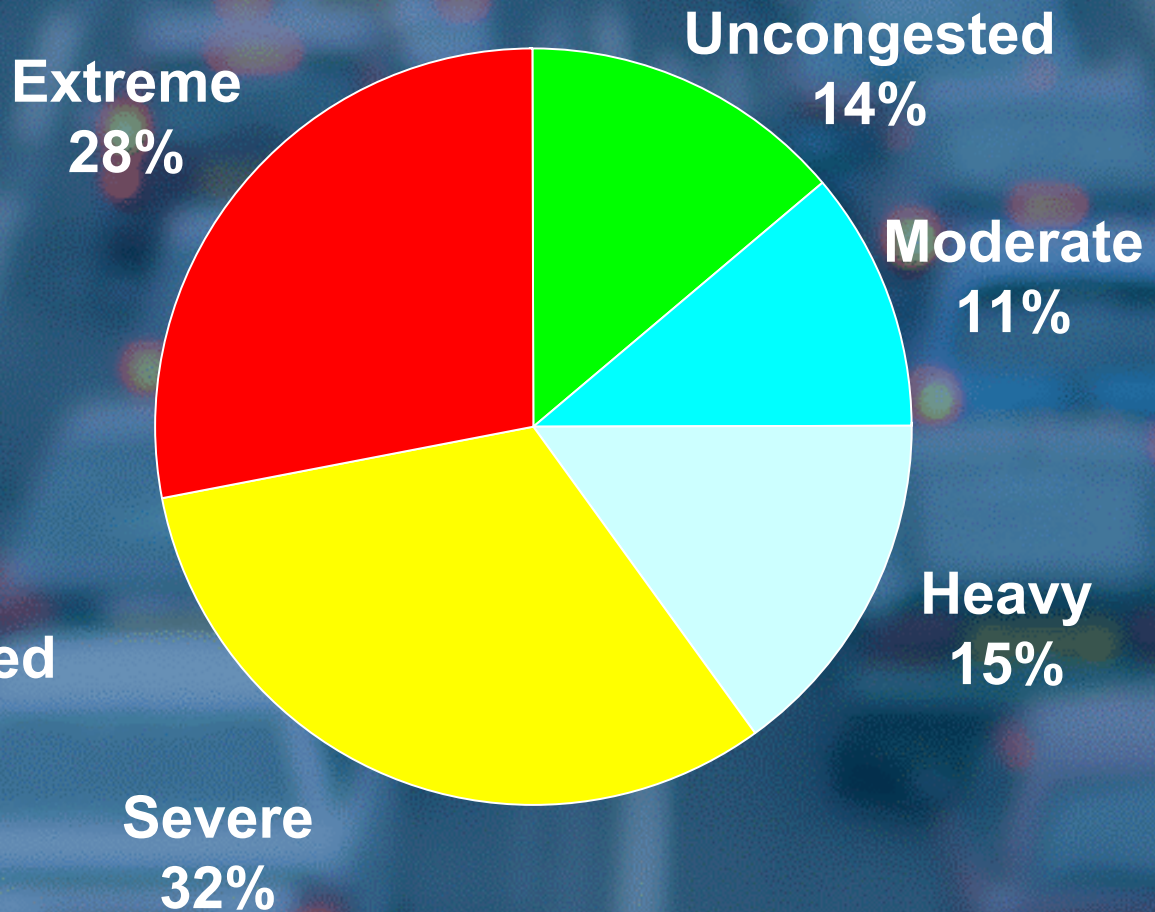


# Washington, DC

1982 26 Million Hours

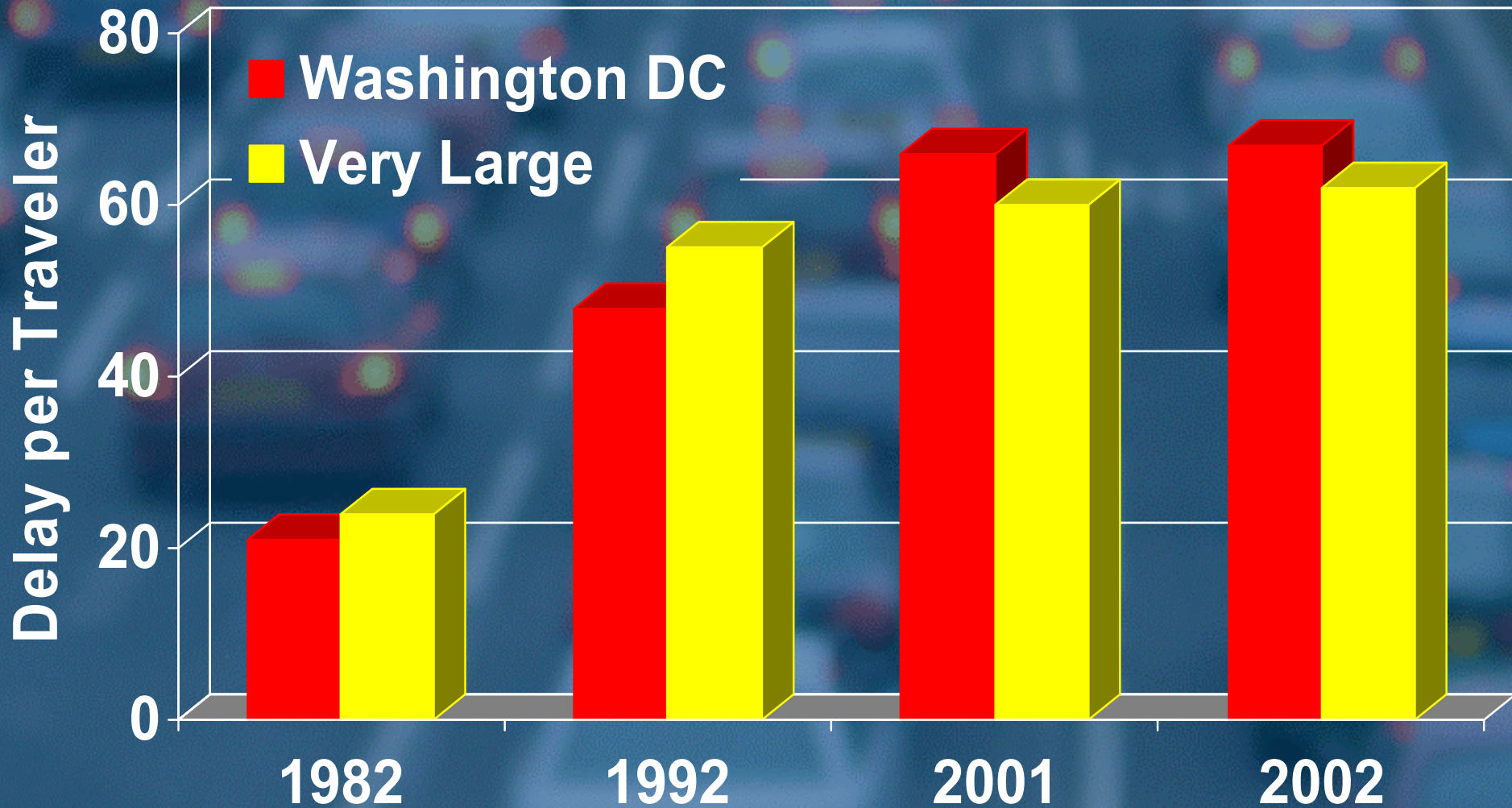


2002 126 Million Hours





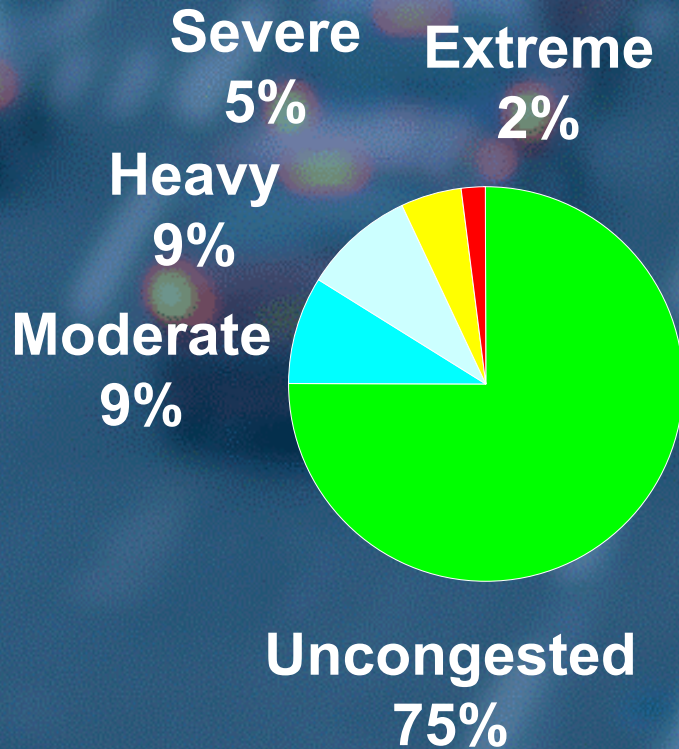
# Washington, DC



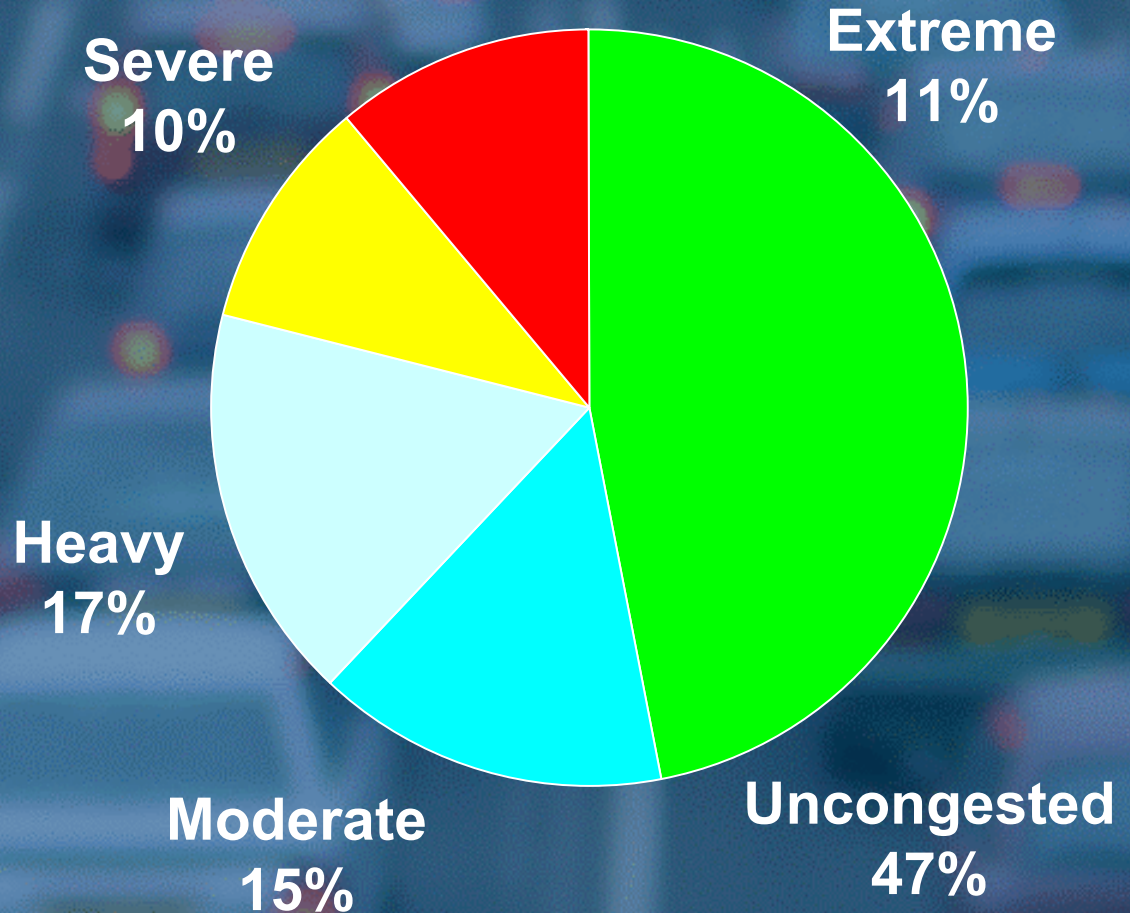


# Hampton Roads

**1982 5 Million Hours**

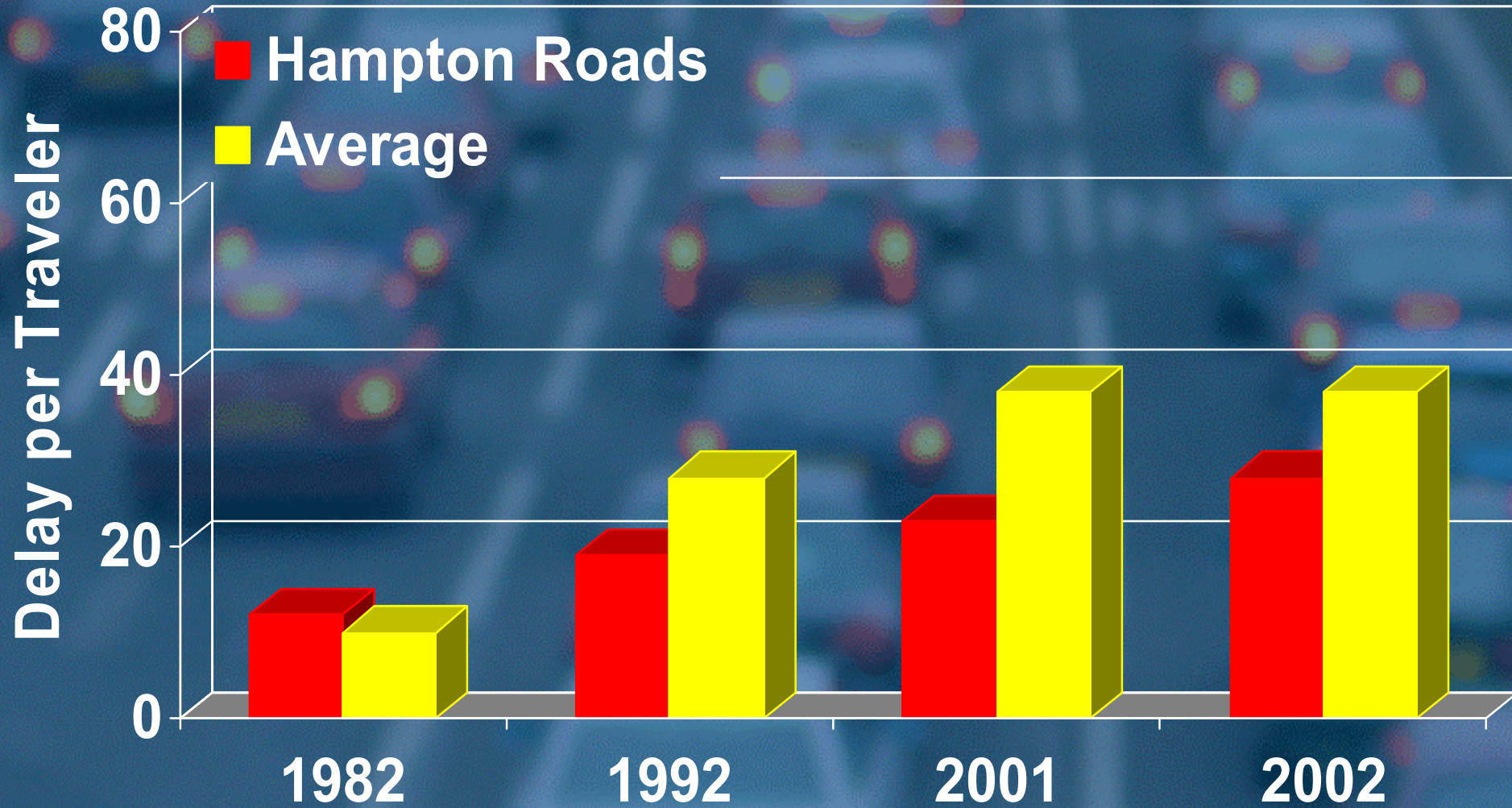


**2002 23 Million Hours**





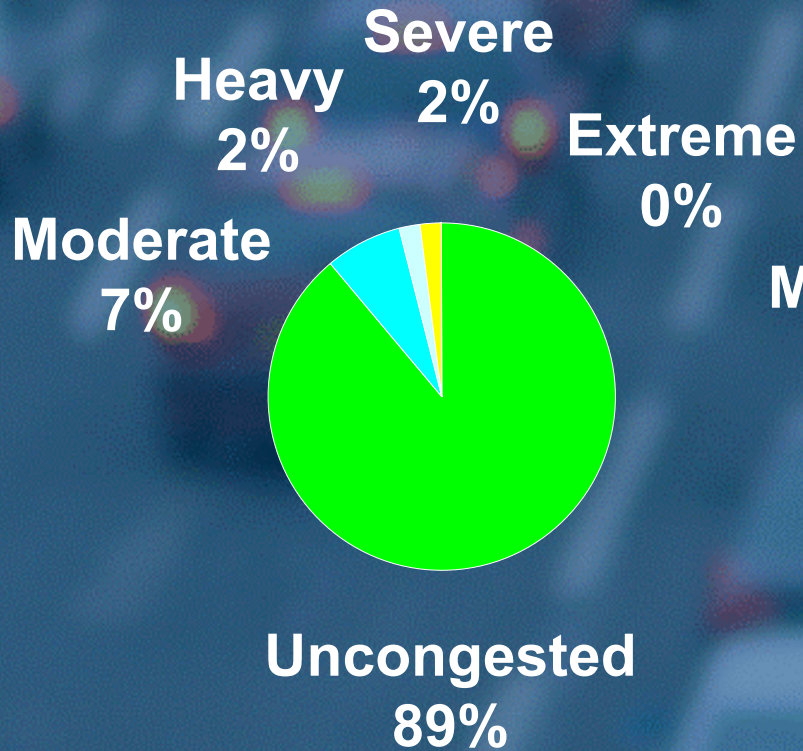
# Hampton Roads



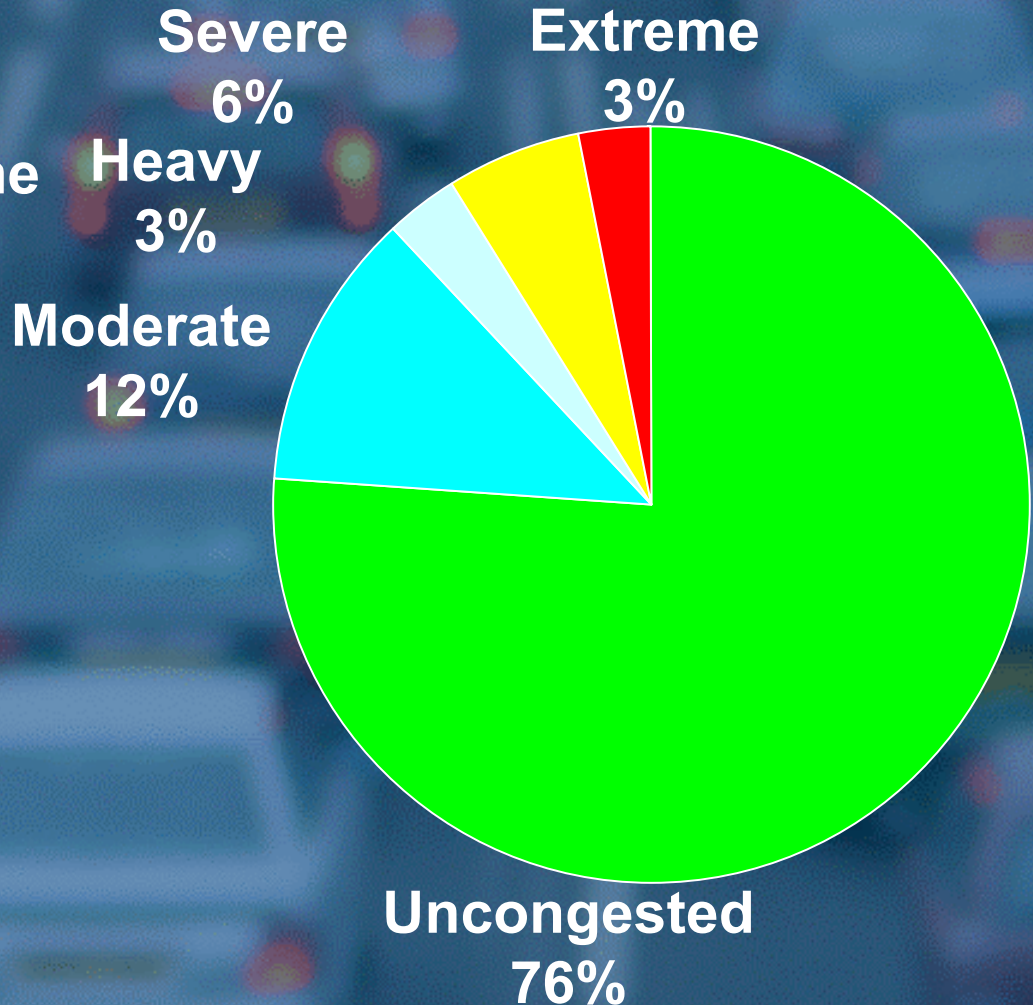


# Richmond

1982 1 Million Hours

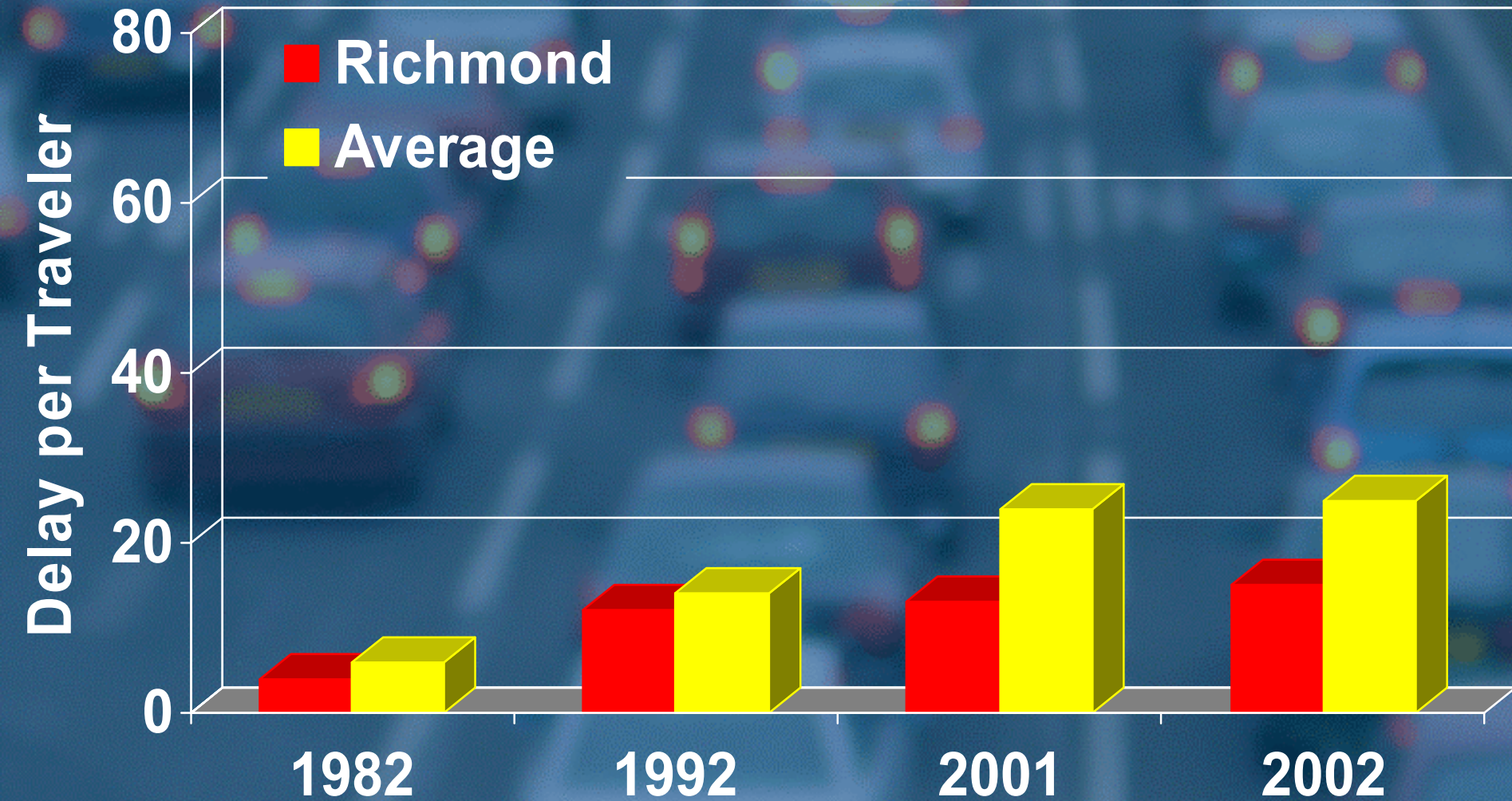


2002 6 Million Hours



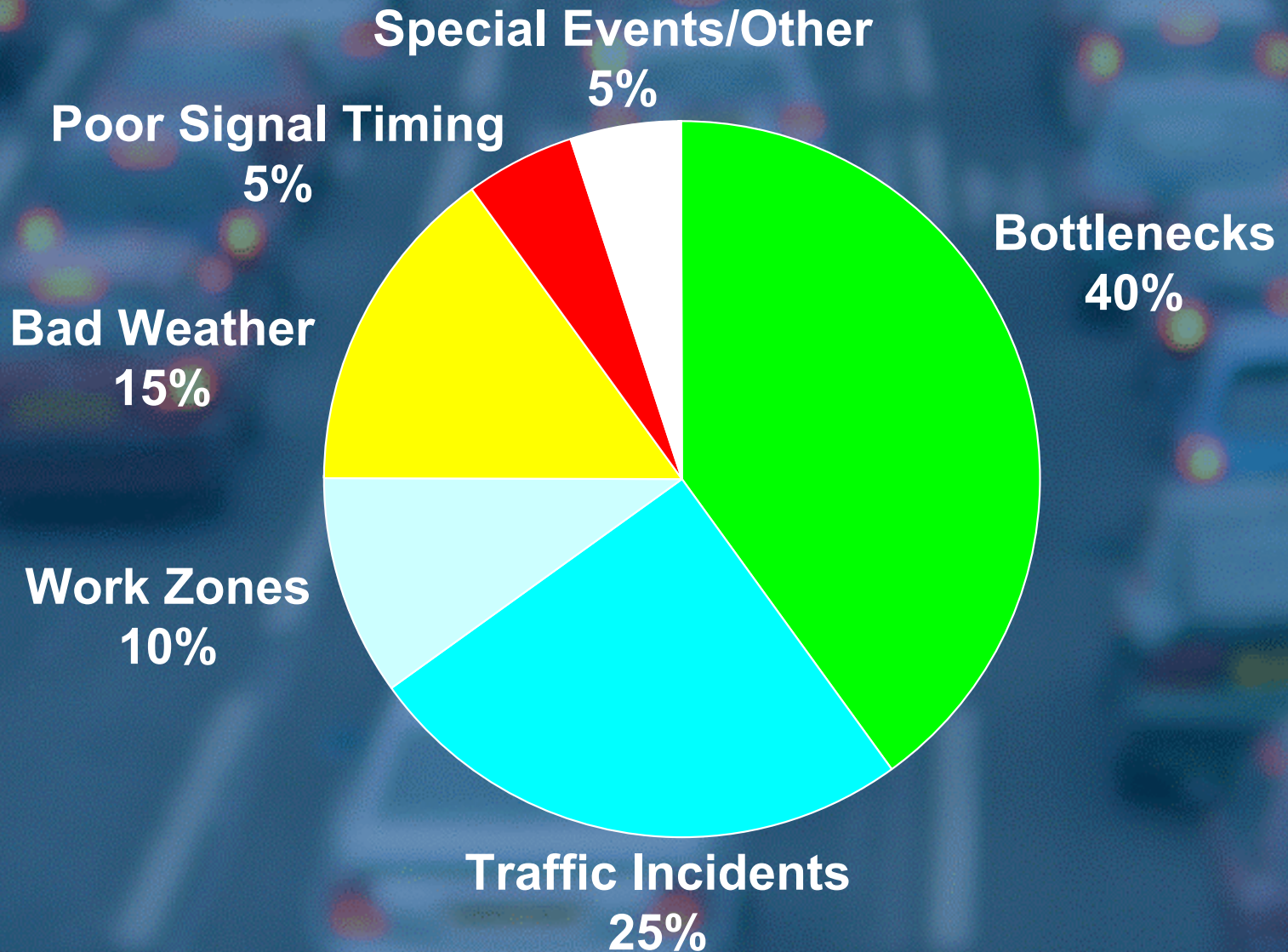


# Richmond





# Congestion Has Many Causes





# Congestion Occurs in Rural Areas





# Congestion in Rural Texas





# Congestion Occurs At Lunchtime





# Result: Frustrated Customers



Chronicle File Photo

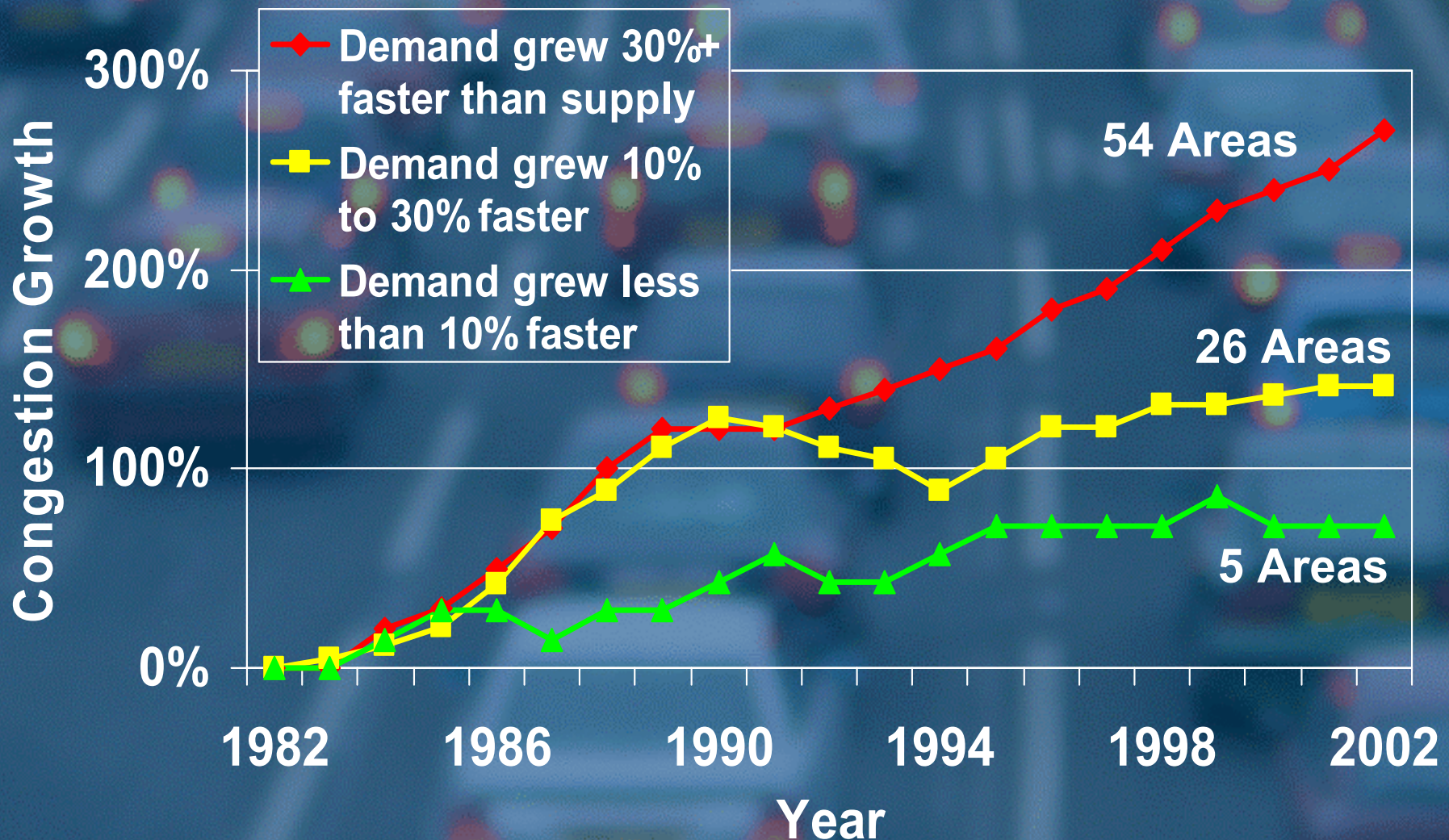


# So What Should We Do?



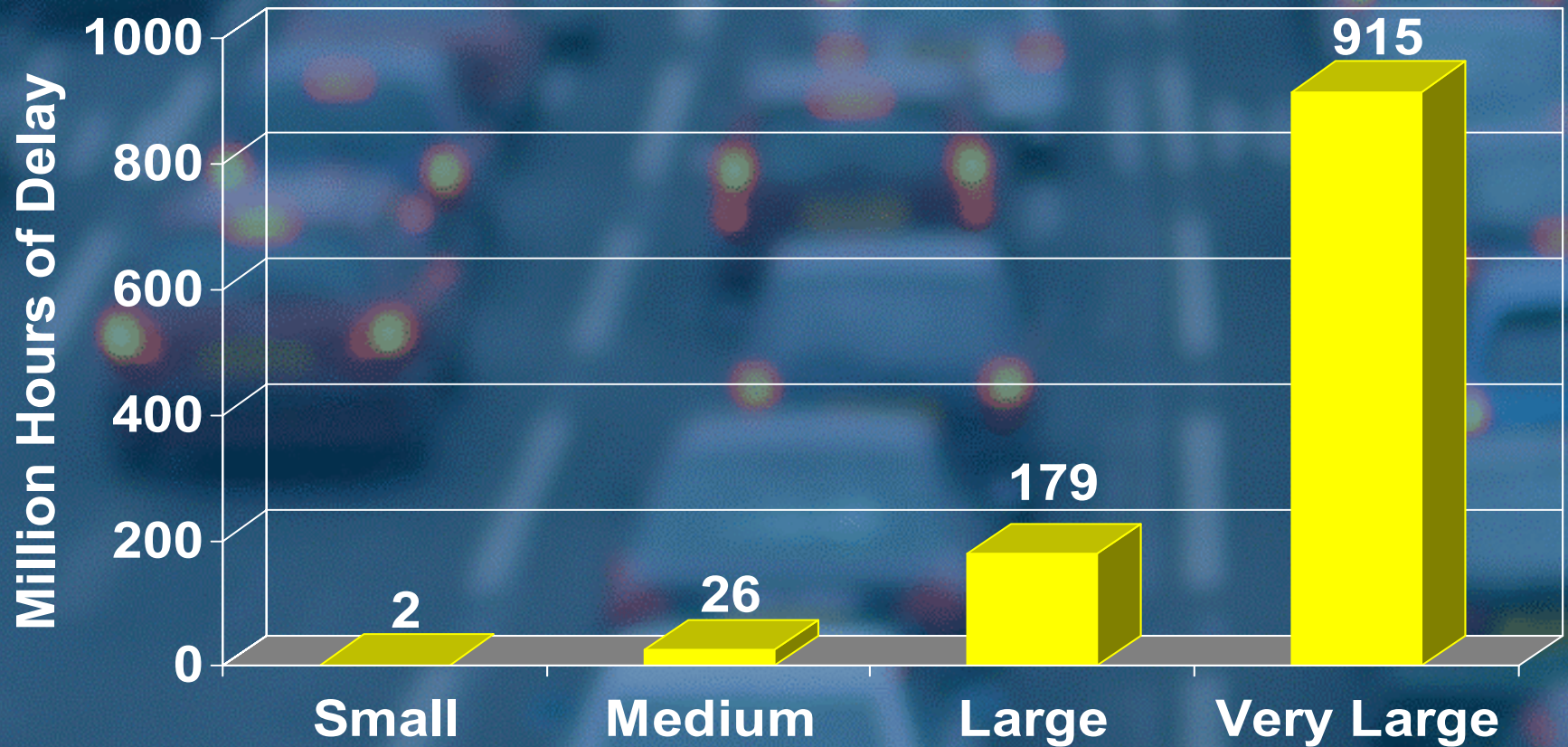


# Road Growth Helps ... But Can't Do It All



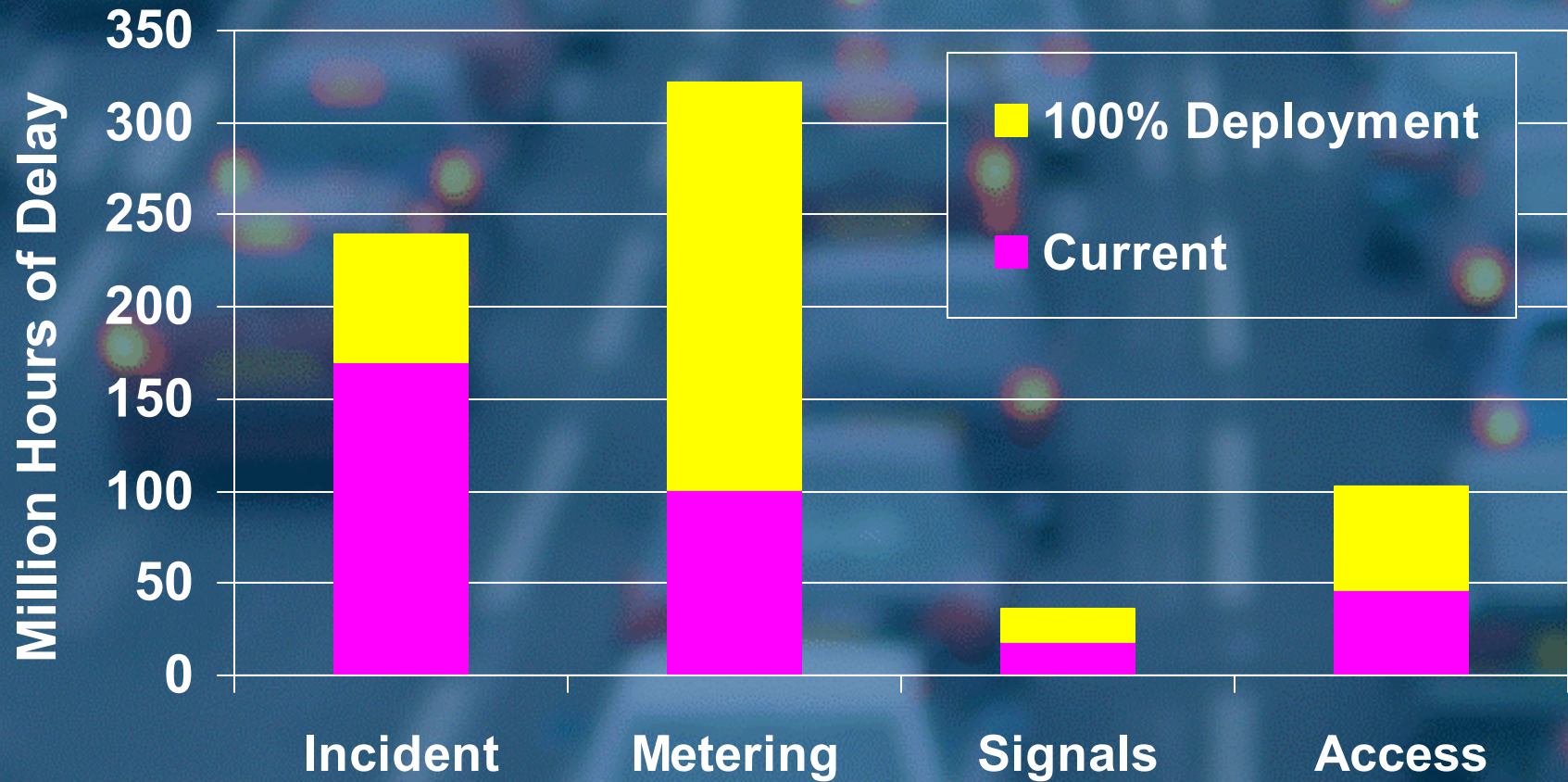


# Public Transportation Benefits



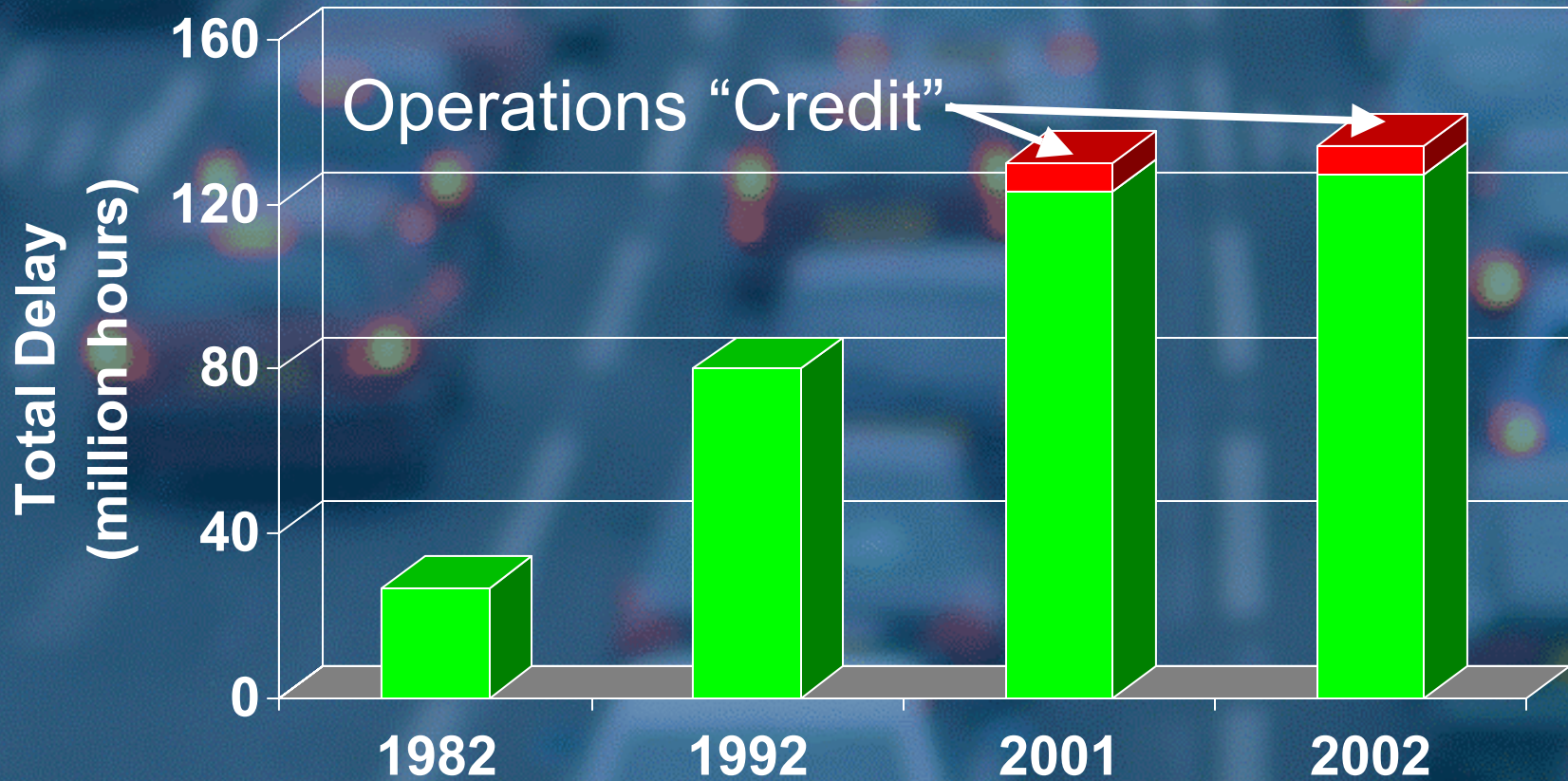


# Better Operations



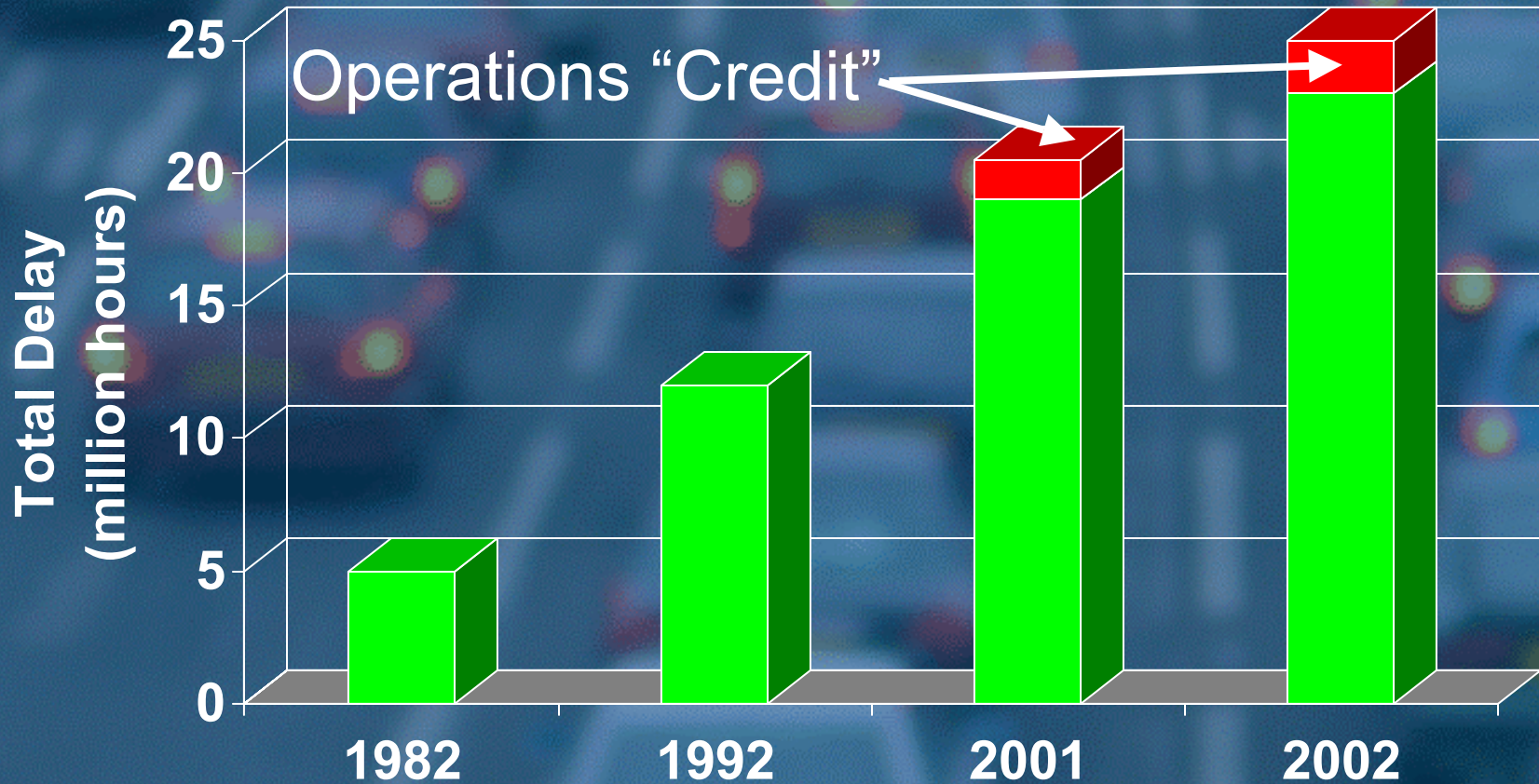


# Washington, DC



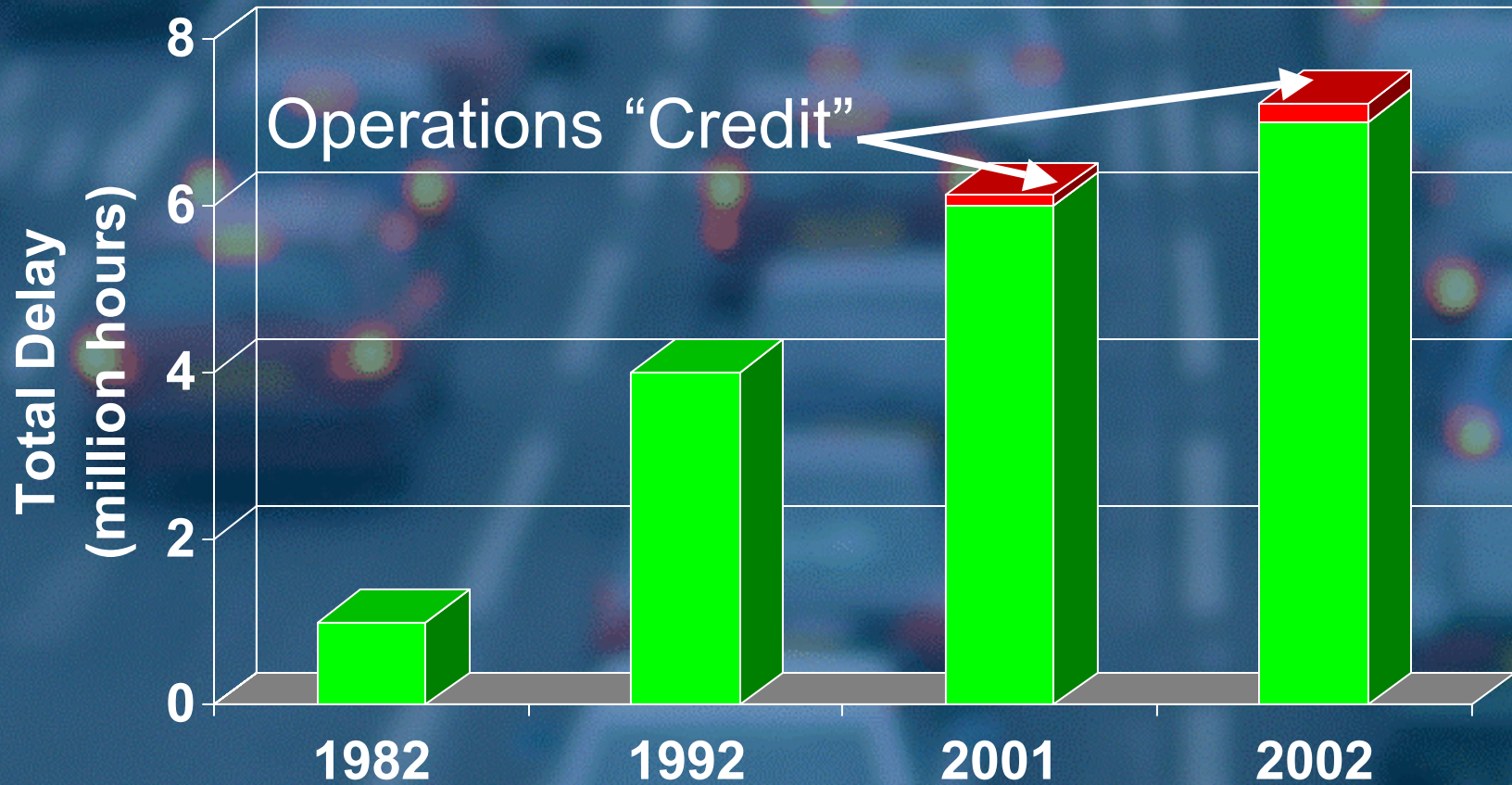


# Hampton Roads



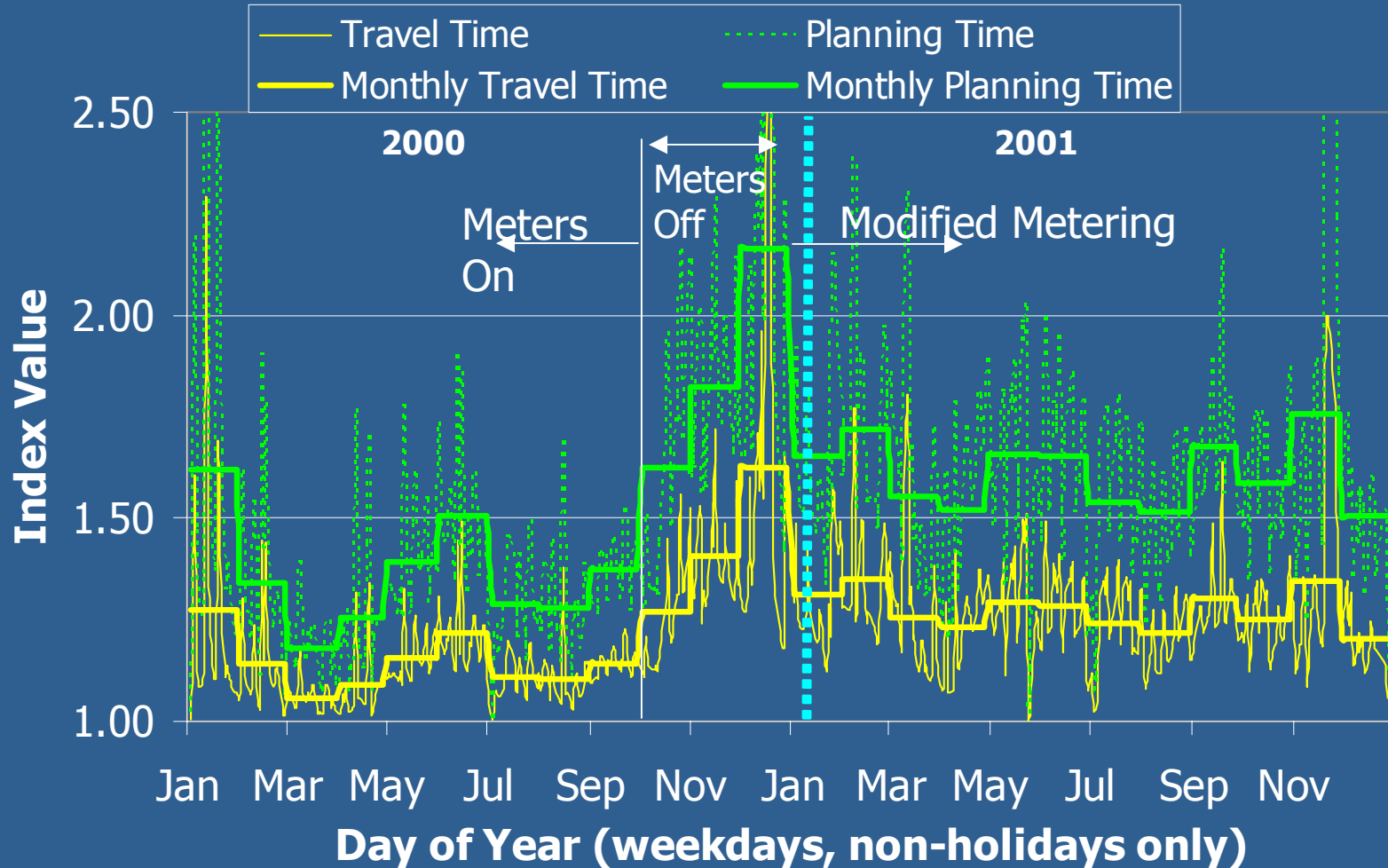


# Richmond



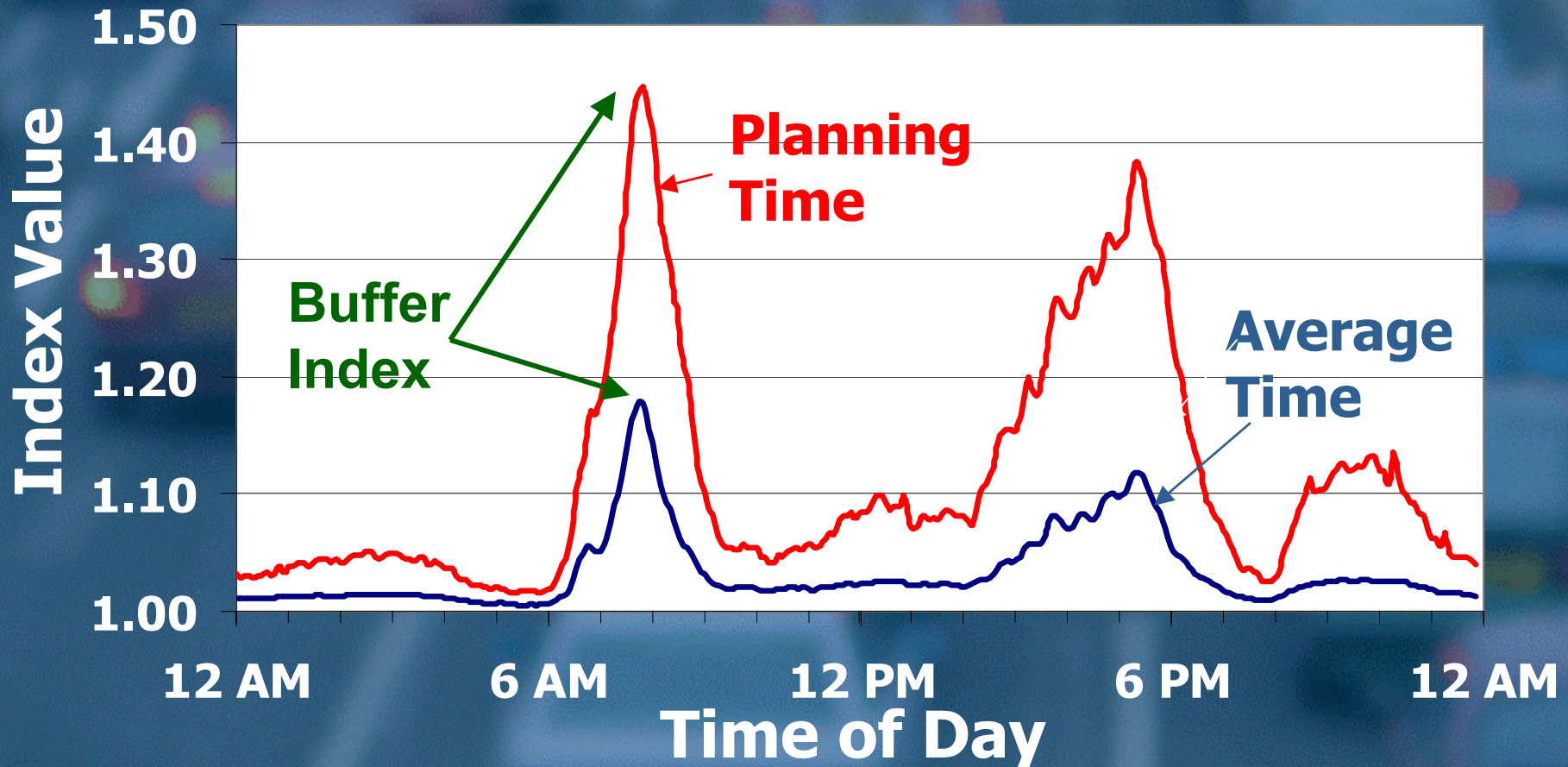


# Ramp Metering Effects



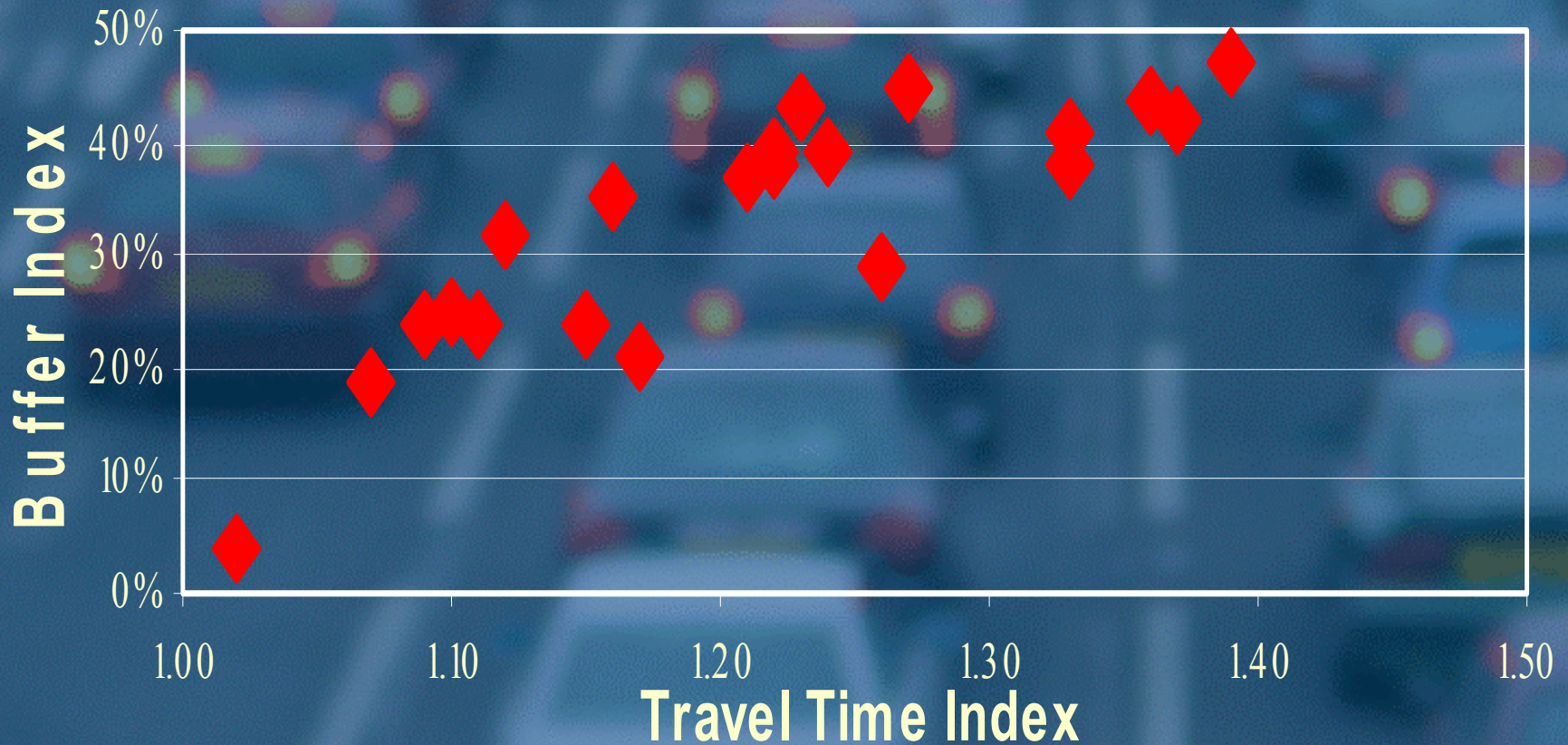


# Planning Time & Buffer Index -- When You Really Need to Be On-Time



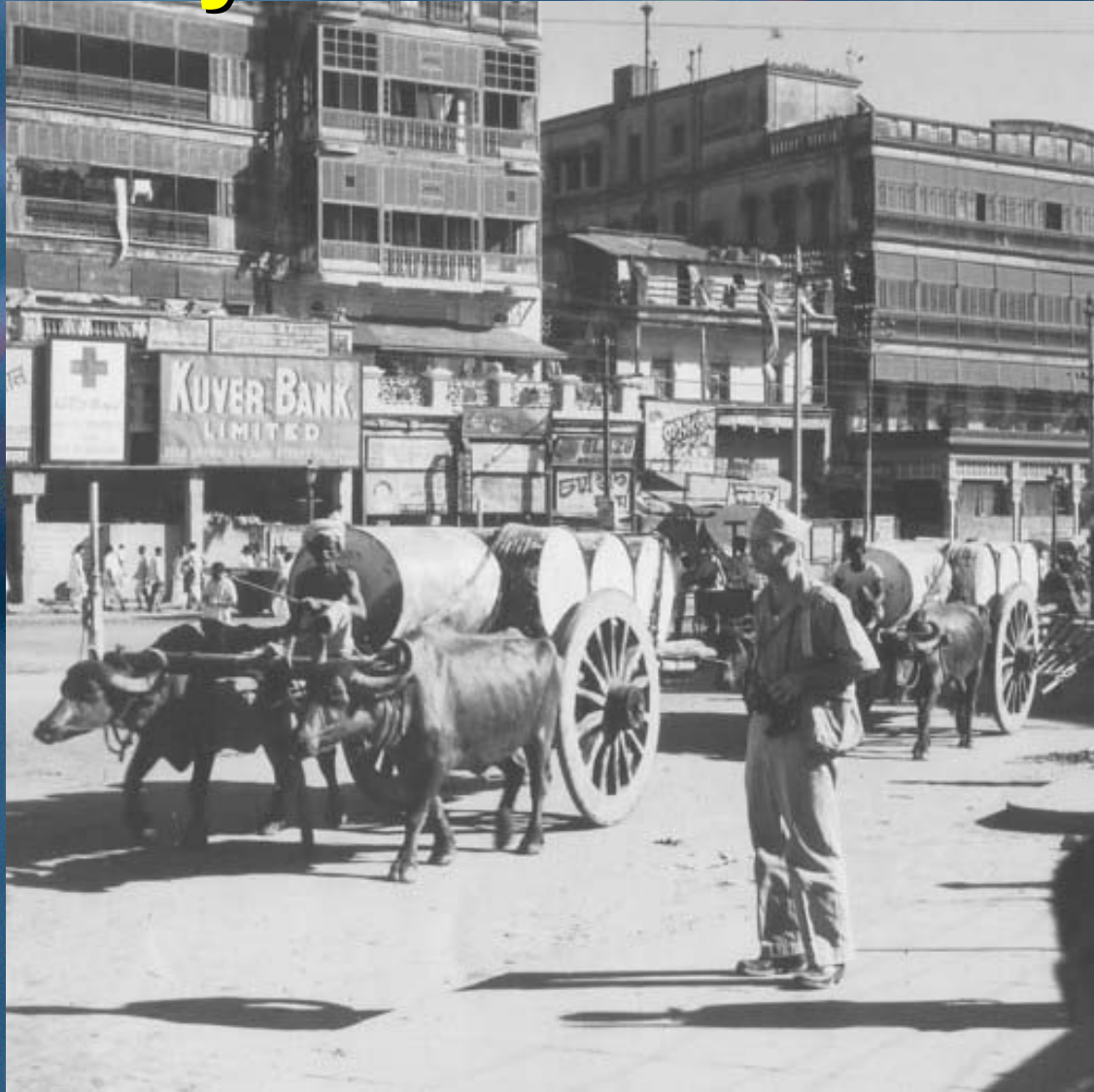


# Congestion and Reliability Are Related





# Advanced Freight Movement Systems in Texas





# Solution? Leave Town





# Communication is Part of The Solution

- Simple Measures, Easy to Understand
  - Identify priorities
  - Improve operations
  - Sell the programs
- Evolve the measures and data
- Benefits that matter to the public and businesses



# What Works?

- Clear Set of Goals and a Message
- Consensus and Spending
- More of All “Solutions”
- Business & Public Participation
- Timely Delivery of Strategies
- “Important” Elements Include:  
Neighborhoods, Parks, Schools,  
Shops, Job Centers



# Summary

- Congestion is growing
- Solutions are multimodal, policies, programs, projects, partnerships
- Aggressive management
  - Demand
  - System
  - Land Use and Development
- One word? Reliability
  - Information (Accountability)
  - Program Delivery
  - System Performance

(<http://mobility.tamu.edu>)



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